11. (Amended) An isolated, enriched, or purified nucleic acid molecule comprising a nucleotide sequence that:

(a) encodes a Fibroblast Growth Factor Receptor Protein Kinase Substrate 2 (FRS2) polypeptide having the full length amino acid sequence set forth in SEQ ID NO: 1;

(b) is the complement of the nucleic acid sequence of (a);

(c) encodes a FRS2 polypeptide having at least 90% sequence identity to the amino acid sequence set forth in SEQ ID NO: 1 and having FRS2 activity;

(d) encodes a FRS2 polypeptide having the full length amino acid sequence of the sequence set forth in SEQ ID NO: 1 except that it lacks at least one, but not all, of the following segments of amino acid residues: 1-10, 11-152, or 153-508;

C2

(e) is the complement of the nucleic acid sequence of (d);

(f) encodes a polypeptide having the amino acid sequence set forth in SEQ ID NO: 1 from amino acid residues 1-10, 11-152, or 153-508;

(g) is the complement of the nucleic acid sequence of (f);

(h) encodes a polypeptide having the full length amino acid sequence set forth in SEQ ID NO: 1 except that it lacks one or more of the domains selected from the group consisting of a myristylation region, a phosphotyrosine binding region, and a C-terminal region;

(i) is the complement of the nucleic acid sequence of (h);

(j) encodes a polypeptide as set forth in (a), (d), or (f) containing one or both of the following mutations: tyrosine 349 to phenylalanine or tyrosine 392 to phenylalanine; or

(k) the complement of the nucleic acid sequence of (j).